



O I F E J C I B S  
 FEB 13 2002  
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## UNITED STATES PATENT AND TRADEMARK OFFICE

COMMISSIONER FOR PATENTS  
UNITED STATES PATENT AND TRADEMARK OFFICE  
WASHINGTON, D.C. 20231  
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APPLICATION NUMBER	FILING/RECEIPT DATE	FIRST NAMED APPLICANT	ATTORNEY DOCKET NUMBER
10/004,582	12/04/2001	Stuart T. Linsky	22-0144

**CONFIRMATION NO. 5148**

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466
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\*OC000000007242080\*

Date Mailed: 12/31/2001

# NOTICE TO FILE MISSING PARTS OF NONPROVISIONAL APPLICATION

**FILED UNDER 37 CFR 1.53(b)**

**Filing Date Granted**

An application number and filing date have been accorded to this application. The item(s) indicated below, however, are missing. Applicant is given **TWO MONTHS** from the date of this Notice within which to file all required items and pay any fees required below to avoid abandonment. Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR 1.136(a).

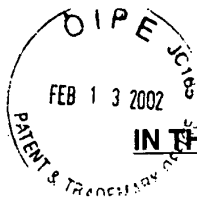
- The oath or declaration is unsigned.
- To avoid abandonment, a late filing fee or oath or declaration surcharge as set forth in 37 CFR 1.16(l) of \$130 for a non-small entity, must be submitted with the missing items identified in this letter.
- **The balance due by applicant is \$ 130.**

***A copy of this notice MUST be returned with the reply.***

Customer Service Center  
Initial Patent Examination Division (703) 308-1202  
PART 1 - ATTORNEY/APPLICANT COPY

1. FOLIO 100.00 5-

COLLEGE



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*Receipt \$4*

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

----- )  
IN RE APPLICATION OF: )

Inventor: Stuart E. Linsky, et al. )

DOCKET NO. 22-0144

Serial Number: 10/004,582 )

Filed: December 4, 2001 )

For: MULTI-PASS PHASE TRACKING )  
LOOP WITH REWIND OF CURRENT WAVE- )  
FORM IN DIGITAL COMMUNICATION )  
SYSTEMS )  
----- )

**REQUEST FOR CORRECTION OF FILING RECEIPT**

Honorable Commissioner for Patents  
Office of Initial Patent Examination  
Customer Service Center  
Washington, D.C. 20231

Sir/Madam:

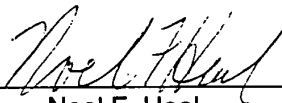
Applicant respectfully requests correction of the Filing Receipt for the  
above-identified application (see attached Filing Receipt). Please correct  
APPLICANT'S ADDRESS as follows:

Christopher W. Walker, **Stevenson** Ranch, CA

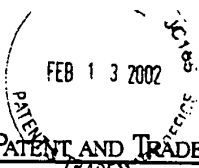
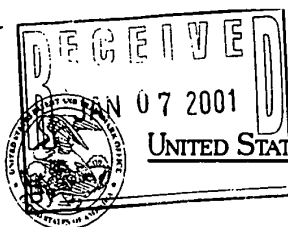
Respectfully Submitted,

Dated: January 29, 2002

By

  
Noel F. Heal  
Reg. No. 26,074

TRW Inc.  
Intellectual Asset Management  
One Space Park, E2/6051  
Redondo Beach, CA 90278  
Tele: (310) 812-4910  
Fax: (310) 812-2687



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WASHINGTON, D.C. 20231  
www.uspto.gov

APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
10/004,582	12/04/2001	2817	848	22-0144	6	26	3

30050  
PATENT COUNSEL, TRW INC.  
S & E LAW DEPT.  
ONE SPACE PARK, BLDG. E2/6051  
REDONDO BEACH, CA 90278

CONFIRMATION NO. 5148

FILING RECEIPT



\*OC000000007242079\*

HTSK 199.394760X00

Date Mailed: 12/31/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Stuart T. Linsky, Rancho Palos Verdes, CA;  
Scott A. Cooper, Seattle, WA;  
Christopher W. Walker, Stevenson Ranch, CA;  
Ali R. Golshan, Hawthorne, CA;

STEVENS

Domestic Priority data as claimed by applicant

Foreign Applications

If Required, Foreign Filing License Granted 12/28/2001

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Multi-pass phase tracking loop with rewind of current waveform in digital communication systems

Preliminary Class

332

FEB 13 2002

PATENT &amp; TRADEMARKS

**LICENSE FOR FOREIGN FILING UNDER**  
**Title 35, United States Code, Section 184**  
**Title 37, Code of Federal Regulations, 5.11 & 5.15**

**GRANTED**

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Office of Export Administration, Department of Commerce (15 CFR 370.10 (j)); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

**NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



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Please type a plus sign (+) inside this box → ☐

PTO/SB/21 (6-98)  
Approved for use through 09/30/2000. OMB 0651-0031  
Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

<b>TRANSMITTAL FORM</b> (to be used for all correspondence after initial filing)	Application Number	10/004,582
	Filing Date	December 4, 2001
	First Named Inventor	Stuart T. Linsky
	Group Art Unit	2817
	Examiner Name	Not Assigned
Total Number of Pages in This Submission	10	Attorney Docket Number 22-0144

ENCLOSURES (check all that apply)		
<input type="checkbox"/> Fee Transmittal Form	<input type="checkbox"/> Assignment Papers (if an Application)	<input type="checkbox"/> After Allowance Communication
<input type="checkbox"/> Fee Affidavit	<input type="checkbox"/> Drawing(s)	<input type="checkbox"/> Appeal Communication and Interferences
<input type="checkbox"/> Amendment / Response	<input type="checkbox"/> Licensing-related Papers	<input type="checkbox"/> Appeal Communication (Appeal Notice, Brief, Reply Brief)
<input type="checkbox"/> After Final	<input type="checkbox"/> Petition Regarding Slip (PTO/SB/69) and Accompanying Petition	<input type="checkbox"/> Proprietary Information
<input type="checkbox"/> Affidavits/Declarations(s)	<input type="checkbox"/> Petition to Convert to Provisional Application	<input type="checkbox"/> Status Letter
<input type="checkbox"/> Extension Time Request	<input type="checkbox"/> Power Attorney, Revocation Change Address	<input checked="" type="checkbox"/> Additional Enclosure(s) (please identify below):
<input type="checkbox"/> Express Abandonment Request	<input type="checkbox"/> Terminal Disclaimer	See 1 in Addendum
<input type="checkbox"/> Information Disclosure Statement	<input type="checkbox"/> Small Entity Statement	
<input type="checkbox"/> Certified Copy Priority Document(s)	<input type="checkbox"/> Request for Re-examination	
<input checked="" type="checkbox"/> Response to Missing Parts/Incomplete Application	Remarks	
<input checked="" type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	Noel F. Heal; Reg. No. 26,074
Signature	<i>Noel F. Heal</i>
Date	1/29/02

CERTIFICATE OF MAILING	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Assistant Commissioner for Patents, Washington, D.C. 20231 on this date: 01/29/2002	
Typed or printed name	Marilyn L. Beaumont
Signature	<i>Marilyn L. Beaumont</i>
Date	1/29/02

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.



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Attachment to (PTO/SB/21) Transmittal Form (continued)

1. Completion of Filing Requirements in Duplicate  
Declaration  
Copy of Notice to File Missing Parts  
Request for Correction of Filing Receipt  
Copy of Filing Receipt



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Practitioner's Docket No. 22-0144

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Linsky, Stuart T.  
Application No.: 10/004,582 Group No.: 2817  
Filed: December 4, 2001 Examiner: Not Assigned  
For: MULTI-PASS PHASE TRACKING  
LOOP WITH REWIND OF CURRENT  
WAVEFORM IN DIGITAL COMMUNICATION  
SYSTEMS

Box Missing Part  
Assistant Commissioner for Patents  
Washington, D.C. 20231

COMPLETION OF FILING REQUIREMENTS  
-- NONPROVISIONAL APPLICATION

I. This replies to the Notice to File Missing Parts of Application (PTO-1533) mailed December 31, 2001.

A copy of the Notice to File Missing Parts of Application--Filing Date Granted (Form PTO-1533) is enclosed.

DECLARATION OR OATH

II. The declaration or oath that was filed was determined to be defective. A new original oath or declaration is attached.

---

CERTIFICATE OF MAILING/TRANSMISSION (37 C.F.R. SECTION 1.8(a))

I hereby certify that this correspondence is, on the date shown below, being:

MAILING

[ X ] deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, D.C. 20231.

FACSIMILE

[ ] transmitted by facsimile to the Patent and Trademark Office at (703) \_\_\_\_ - \_\_\_\_.

  
Signature

Date: January 29, 2002

Marilyn L. Beaumont  
(type or print name of person certifying)



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### COMPLETION FEES

#### III. Surcharge Fees

Late payment of filing fee and/or late filing of original declaration or oath (37 C.F.R. Section 1.16(e)) - \$130.00

Total Completion Fees      \$130.00

### EXTENSION OF TIME

#### IV. The proceedings herein are for a patent application, and the provisions of 37 C.F.R. Section 1.136(a) apply.

Applicant believes that no extension of term is required. However, this conditional petition is being made to provide for the possibility that applicant has inadvertently overlooked the need for a petition and fee for extension of time.

### TOTAL FEE DUE

#### V. The total fee due is:

Completion fees	\$130.00
Extension fee (if any)	\$0.00
Total Fee Due	\$130.00

### PAYMENT OF FEES

#### VI. Charge Account No. 20-1515 in the amount of 130.00.

A duplicate of this request is attached.

Please charge Account No. 20-1515 for any fees that may be due by this paper.

Date: January 29, 2002

Noel F. Heal  
Registration No. 26,074  
TRW INC.  
Intellectual Asset Management  
One Space Park, E2/6051  
Redondo Beach, CA 90278  
310-812-4910